

## Amendments to the Claims

Please amend claims to be as follows.

1. (currently amended) An apparatus for supplying power to a set of servers or computer systems, the apparatus comprising:  
a chassis for each said computer system;  
at least one power supplying bus bar to which power inputs of the computer systems [[is]] are connected, said at least one bus bar being external to said computer system chassis;  
a plurality of power supplies which are external to said computer system chassis;  
a plurality of power switches, each power switch configured between one of said power supplies and said at least one bus bar, for selectively connecting the power supplies to said at least one bus bar; and  
a power supply management controller configured to control the power switches such that the power is supplied redundantly to the computer systems.
2. (original) The apparatus of claim 1 comprising at least two bus bars such that further redundancy is provided.
3. (original) The apparatus of claim 1, further comprising:  
an expander device for coupling the power supply management controller to control inputs of the power switches.
4. (original) The apparatus of claim 1, wherein each power supply includes a power sensor that measures at least voltage and current of power supplied, and wherein the power supply management controller is further configured to receive status information from the power supplies.

5. (original) The apparatus of claim 4, wherein the status information is retrieved by way of a polling type mechanism.
6. (original) The apparatus of claim 4, wherein the status information is received by way of an interrupt type mechanism.
7. (original) The apparatus of claim 4, further comprising:  
a serial bus multiplexer for multiplexing signals from the plurality of power supplies into a serial signal to the power supply management controller.
8. (original) The apparatus of claim 1, wherein the plurality of power supplies each supply power at a same voltage level.
9. (original) The apparatus of claim 8, wherein the plurality of power supplies are of non-uniform power capacities (wattage).
10. (original) The apparatus of claim 8, further comprising:  
a rack onto which the computer systems are mounted,  
wherein the plurality of bus bars are integrated into the rack.
11. (original) The apparatus of claim 1, further comprising:  
a consolidated cooling system for cooling the plurality of power supplies.
12. (original) The apparatus of claim 1, wherein the power supplies have built-in cooling systems.
13. (original) The apparatus of claim 1, wherein the switches comprise field effect transistors of sufficiently high speed to avoid detrimental gaps in power supplied.
14. (original) The apparatus of claim 1, wherein the switches comprise controllable electromagnetic relays.

15. (original) The apparatus of claim 1, wherein the switches comprise controllable circuit breakers.
16. (original) The apparatus of claim 1, further comprising:  
a communications channel between the computer systems and the power supply management controller for communicating power usage information from the computer systems to the power supply management controller.
17. (original) The apparatus of claim 1, wherein a bus bar is coupled via the switches to at least two power supplies.
18. (original) The apparatus of claim 2, wherein a computer system is connected to the at least two bus bars.
19. (original) The apparatus of claim 2, wherein a power supply is coupled via the switches to at least two bus bars.
20. (original) A method for supplying redundant power to a plurality of computer systems coupled to a plurality of bus bars, the method comprising:  
receiving status data from a plurality of power supplies;  
determining a need to re-allocate the power supplies to the bus bars if the status data indicates a detrimental condition of a power supply; and  
switching at least one power supply to supply power via one of the bus bars if the re-allocation is determined to be needed.
21. (original) The method of claim 20, wherein the status data is requested periodically by way of polling.
22. (original) The method of claim 21, wherein the polling comprises round robin type scheduling.
23. (original) The method of claim 20, wherein the status data is received by way of interrupts.

24. (original) The method of claim 20, further comprising:  
applying predictive failure analysis to the status data to predict an upcoming failure of a power supply.
25. (original) The method of claim 24, further comprising:  
evaluating an anticipated need to re-allocate the power supplies to the bus bars in event of the upcoming failure; and  
preemptively switching at least one power supply to supply power via one of the bus bars if the re-allocation is anticipated to be needed.
26. (original) The method of claim 20, further comprising:  
receiving additional status data relating to power consumption from the plurality of computer systems.
27. (original) The method of claim 20, wherein said determining takes into account prioritization factors.
28. (original) A system for supplying redundant power to a plurality of computer systems coupled to a plurality of bus bars, the system comprising:  
means for receiving status data from a plurality of power supplies;  
means for determining a need to re-allocate the power supplies to the bus bars if the status data indicates a failure condition of a power supply;  
and  
means for switching at least one power supply to supply power via one of the bus bars if the re-allocation is determined to be needed.